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INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference PPD 70127WO	FUR FURITER AVIVI Destining a Evamination Report (Form PCI//PEA/410)						
International application No. PCT/GB 03/04832	International filing date (da 10.11.2003	y/month/year)	Priority date (day/month/yea 26.11.2002	r)			
International Patent Classification (IPC) or bo	th national classification and	IPC					
C07C235/20							
Applicant							
SYNGENTA LIMITED et al.							
·							
This international preliminary exar Authority and is transmitted to the	nination report has been applicant according to A	prepared by this Inte rticle 36.	rnational Preliminary Exar	nining			
2. This REPORT consists of a total of	of 6 sheets including this	cover sheet.					
This report is also accompa been amended and are the (see Rule 70.16 and Section	hasis for this report and/0	r sneets containing i	ecuncations made before	which have this Authority			
These annexes consist of a total							
I nese annexes consist of a total	or / sneets.			ľ			
3. This report contains indications re	elating to the following ite	ms:					
I ⊠ Basis of the opinion							
II Priority							
III Non-establishment of	opinion with regard to no		and industrial applicability				
IV 🛛 Lack of unity of inven	tion	2 41					
V 🛭 Reasoned statement citations and explana	V Reasoned statement under Rule 66.2(a)(ii) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement						
VI Certain documents c		·					
	e international application						
VIII Certain observations	on the international appli	cation					
Date of submission of the demand Date of completion of this report							
Date of submission of the demand		Date of completion of	uns report				
25.05.2004		07.04.2005					
Name and mailing address of the internation	onal	Authorized Officer		has Patene.			
preliminary examining authority:				John Mil			
European Patent Office D-80298 Munich	Österle, C						
Tel. +49 89 2399 - 0 Tx: 52:	3656 pmu d	Telephon No. +49 8	9 2399-8120	S. Polomo and . All			
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INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

PCT/GB 03/04832

ı.	•	Basis	of	the	re	po	rt
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1. With regard to the elements of the international application (Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report since they do not contain amendments (Rules 70.16 and 70.17)): D scription, Pages as originally filed 1-51 Claims, Numbers filed with telefax on 07.12.2004 1-11 With regard to the language, all the elements marked above were available or furnished to this Authority in the language in which the international application was filed, unless otherwise indicated under this item. These elements were available or furnished to this Authority in the following language: the language of a translation furnished for the purposes of the international search (under Rule 23.1(b)). the language of publication of the international application (under Rule 48.3(b)). the language of a translation furnished for the purposes of international preliminary examination (under Rule 55.2 and/or 55.3). 3. With regard to any nucleotide and/or amino acid sequence disclosed in the international application, the international preliminary examination was carried out on the basis of the sequence listing: contained in the international application in written form. filed together with the international application in computer readable form. furnished subsequently to this Authority in written form. furnished subsequently to this Authority in computer readable form. The statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished. The statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished. 4. The amendments have resulted in the cancellation of: □ the description, pages: ☐ the claims, Nos.: sheets: the drawings, This report has been established as if (some of) the amendments had not been made, since they have 5. □

(Any replacement sheet containing such amendments must be referred to under item 1 and annexed to this

been considered to go beyond the disclosure as filed (Rule 70.2(c)).

Form PCT/IPEA/409 (January 2004)

6. Additional observations, if necessary:

report.)

IV.	Lack	of unity	of i	nvention
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1.	In re	response to the invitation to restrict or pay additional lees, the applicant has.							
		restricted the claims.							
		paid additional fees.							
		paid additional fees under protest.							
		neither restricted nor paid addit	ional fe	ees.					
2.	⊠	This Authority found that the requirement of unity of invention is not complied with and chose, according to Rule 68.1, not to invite the applicant to restrict or pay additional fees.							
3.	Thi	This Authority considers that the requirement of unity of invention in accordance with Rules 13.1, 13.2 and 13.3 s							
		complied with.				٠.	\$		
		not complied with for the follow	ing rea	asons:		•,			
4.	Co	Consequently, the following parts of the international application were the subject of international preliminary examination in establishing this report:							
	\boxtimes	all parts.							
		the parts relating to claims Nos							
V	. R cit	asoned statement under Artic ations and explanations supp	le 35(2 orting	2) with rega such state	rd to novelty, in ment	ventive ste	o or industrial applicability		
1	. Sta	atement							
	No	ovelty (N)	Yes: No:	Claims Claims	2-4,9-11 1,5-8				
	In	ventive step (IS)	Yes: No:	Claims Claims	1-11		935 -		
	In	dustrial applicability (IA)	Yes: No:	Claims Claims	1-11				
2	. C	tations and explanations							

see separate sheet

EXAMINATION REPORT - SEPARATE SHEET

R Item IV

Lack of unity of invention

D1: EP-A-0001721 D2: US-A-4146387 D3: US-A-3272844 D4: DE-A-2731960 D5: US-A-4116677

1. Article 13.1 PCT:

The technical feature common to the compounds of present claim 1 is the following skeleton: Ph-O-CH-CO-N-C-CC.

This basic skeleton is already known from D1 (see the grounds for this objection below). D1 furthermore discloses that compounds having the same skeleton have the same fungicidal activity.

The requisite unity of invention (Rule 13.1 PCT) therefore no longer exists inasmuch as a technical relationship involving one or more of the same or corresponding special technical features in the sense of Rule 13.2 PCT does not exist between the subject-matter of the individual compounds of claims 1-9, as well as of the subject-matter of claims 10-12.

Unity between the individual compounds can only then be restored if the claims are limited such that all compounds have a common technical feature which fulfils the requirements of Articles 33(2) and (3) PCT in view of D1.

The fact that compounds of claim (1) for which R_5 is defined as methoxymethyl have improved fungicidal activity as compared to the compounds of D1 cannot establish unity between the compounds of claim 1 since compounds for which for example R_5 =-S(O)n(C_1 - C_6)alkyl have only the above mentioned skeleton in common, which is known from D1. The improved activity is based on a structural difference between the compounds of D1 and the compound of the test provided (see below). This structural difference is however not present in all compounds of formula (1). The objection regarding the lack of unity therefore is maintained.

R Item V

Reasoned statement with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

- D1: EP-A-0 001 721 (STAUFFER CHEMICAL CO) 2 May 1979 (1979-05-02)
- D2: US-A-4 146 387 (THIELE GERALD H) 27 March 1979 (1979-03-27)
- D3: US-A-3 272 844 (EASTON NELSON R ET AL) 13 September 1966 (1966-09-13)

Article 33(2) PCT: 1.

1.1 A disclaimer has been introduced in the subject-matter of claim 1. The disclaimer excludes the compound 3,6,8-trimethyl-6-phenoxyacetamido-4-nonyne from the subject-matter of claim 1. The disclaimer is however in violation of Article 34 (2(b)) PCT since this compound is not considered novelty destroying and was not disclosed in the application as originally filed (this compound in fact would be defined in formula (1) with X=Y=Z=H, which already is excluded from claim 1).

In fact, the compound which was cited in the search report, 2-methyl-2-(3,4bis(trifluoromethyl)phenoxyacetamido)-3-hexyne is still considered to anticipate the subject-matter of claims 1,5,6,7 and 8.

- . 1.2 Claims 2-4 and 9-11 are considered novel.
 - Article 33(3) PCT: 2.
 - The technical problem in view of D1, considered the closest prior art, can be seen in 2.1 providing further compounds with fungicidal activity.

The solution suggested by the Applicant are the compounds of present claim 1.

The Applicant provided data showing that a compound corresponding to compound 8 of claim 1 but for which R is a methoxymethyl group instead of a methyl group has. improved fungicidal activity against Phytophthora infestans.

132

:65.

The tests provided by the Applicant are considered to establish an inventive activity of the subject-matter of claim 1 over D1.

2.2 Considering the data provided by the Applicant it is apparent that a small structural change results in a large change in fungicidal activity of the compound. This could not have been predicted from D1. However, the structural difference between the compounds falling within the scope of formula (1) is much larger than the difference between the compounds of the test provided by the Applicant. It seems doubtful that changing the nature of $R_{\rm s}$ from methoxymethyl to for example a triazolyl group would lead to a compound having the desired technical effect. A generalization of experimental results for compounds with very different substituents R5 does not appear to be justified.

• The subject-matter of claims 1-11 therefore cannot be considered inventive.